

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P730387

Luminaire Tested: **HBLED-LD5-15HE-N-CLI-UNV-L850**

Issue Date: 11/13/2023

Test Information

Test Method: LM-79-08
Report Number: P730387
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23769)
Test Lab: INNOVATION CENTER
Issue Date: 11/13/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-15HE-N-CLI-UNV-L850
Description: 15000 LUMEN, HE HBLED WITH NARROW DISTRIBUTION AND CLEAR ACRYLIC LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14481.0 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 0.64 / 0.78
Luminous Opening: Rectangular (W 1.67' x L: 4' x H: 0')
CIE Type: Direct

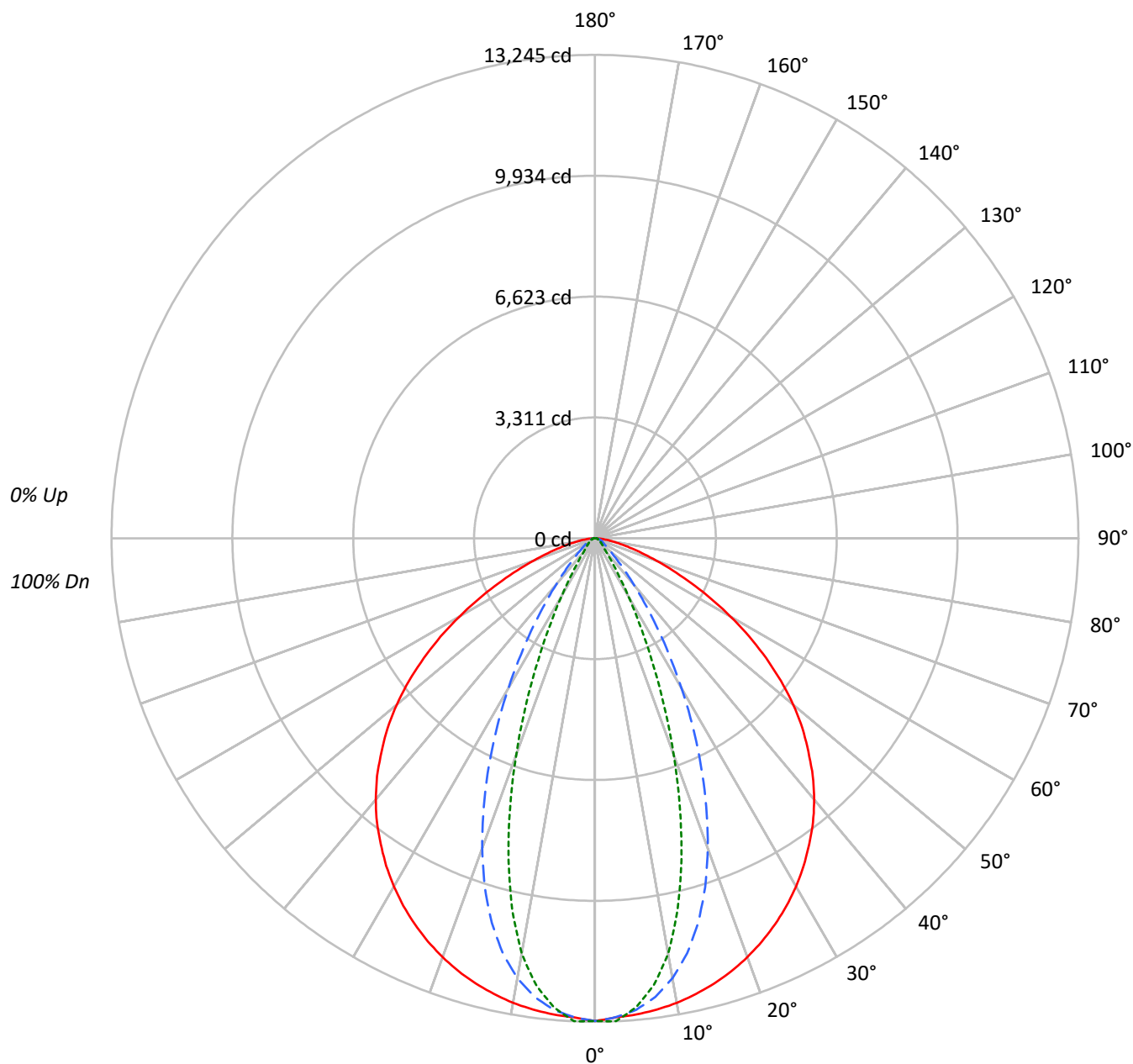
Input Watts (W): 91.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90		
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	81		
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72		
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	86	76	69	63	84	75	68	63	73	67	62	71	66	62	69	65	61	60		
6	81	70	63	58	79	69	62	57	68	62	57	66	61	57	65	60	56	55		
7	76	65	58	53	75	64	58	53	63	57	52	62	56	52	60	56	52	50		
8	72	61	54	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43		
10	64	53	47	42	63	53	46	42	52	46	42	51	46	42	50	45	42	40		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21357	21357	21357
5°	21228	21017	20906
10°	21193	20065	18935
15°	21107	18239	15292
20°	20981	15520	10838
25°	20793	12238	6548
30°	20540	8832	3365
35°	20170	5774	1681
40°	19691	3468	981
45°	18873	2071	733
50°	17801	1354	616
55°	16111	1027	537
60°	13845	875	490
65°	11137	798	463
70°	8390	855	460
75°	6172	813	473
80°	4515	810	519
85°	3383	982	671



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1218.2	8.4
10°-20°	3030.5	20.9
20°-30°	3356.8	23.2
30°-40°	2689.4	18.6
40°-50°	1919.9	13.3
50°-60°	1233.1	8.5
60°-70°	668.3	4.6
70°-80°	285.7	2.0
80°-90°	79.2	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	7605.5	52.5
0°-40°	10294.8	71.1
0°-60°	13447.8	92.9
0°-90°	14481.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	14481.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13227	13227	13227	13227	13227	
5°	13098	13147	12968	12926	12899	###
15°	12628	12232	10912	9643	9148	3563
25°	11672	10292	6869	4476	3676	5377
35°	10233	7402	2930	1182	853	6398
45°	8266	4273	907	386	321	6371
55°	5723	1910	365	224	191	5101
65°	2915	784	209	144	121	2919
75°	989	287	130	91	76	1099
85°	183	76	53	44	36	223
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13227.3	13227.3	13227.3	13227.3	13227.3
2.5°	13140.3	13222.5	13134.0	13189.0	13245.4
5°	13097.8	13146.6	12967.5	12926.3	12899.2
7.5°	13023.9	13010.0	12673.5	12455.4	12350.2
10°	12926.3	12813.5	12238.7	11759.4	11549.0
12.5°	12787.0	12554.3	11650.0	10808.4	10451.7
15°	12627.5	12232.5	10911.5	9642.9	9148.2
17.5°	12436.6	11856.2	10028.8	8393.0	7740.2
20°	12210.9	11402.0	9032.6	7065.1	6307.8
22.5°	11958.7	10878.1	7965.9	5741.4	4929.1
25°	11671.6	10291.5	6869.4	4475.6	3675.7
27.5°	11361.6	9640.1	5779.1	3344.1	2614.6
30°	11017.4	8935.1	4737.5	2411.3	1805.1
32.5°	10641.9	8185.4	3769.8	1695.7	1234.5
35°	10233.0	7401.6	2929.5	1181.6	852.7
37.5°	9814.2	6601.8	2212.7	835.3	611.7
40°	9342.6	5804.8	1645.6	611.7	465.4
42.5°	8836.1	5023.1	1217.8	470.9	376.9
45°	8265.5	4272.8	907.1	386.0	321.2
47.5°	7712.4	3573.3	689.0	328.8	279.4
50°	7086.7	2942.1	539.2	287.1	245.2
52.5°	6422.8	2386.9	437.5	252.9	216.0
55°	5723.3	1910.3	365.0	224.3	190.9
57.5°	5014.8	1513.2	312.1	199.9	170.0
60°	4287.4	1210.1	271.0	179.0	151.8
62.5°	3577.5	967.7	236.9	160.9	135.9
65°	2915.0	784.4	209.0	144.2	121.2
67.5°	2302.5	620.1	195.1	129.6	109.4
70°	1777.2	482.8	181.2	115.6	97.5
72.5°	1346.7	370.7	160.3	103.1	86.4
75°	989.3	287.1	130.3	90.6	75.9
77.5°	707.9	220.9	105.9	78.7	65.5
80°	485.6	164.5	87.1	67.6	55.8
82.5°	315.6	116.4	70.4	55.8	45.9
85°	182.6	75.9	53.0	43.9	36.2
87.5°	78.7	41.8	36.2	32.8	27.8
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - 90°-270°







(END OF REPORT)